DATASHEET - LN2-200-I



Switch-disconnector, 3 p, 200A, frame size 2

Part no. LN2-200-I Catalog No. 112003



Similar to illustration

Delivery program			
Product range			Switch-disconnectors
Protective function			Disconnectors/main switches
Standard/Approval			IEC
Installation type			Fixed
Construction size			LN2
Description			Main switch characteristics including positive drive to IEC/EN 60204 and VDE 0113. Isolating characteristics to IEC/EN 60947-3 and VDE 0660. Busbar tag shroud to VDE 0160 Part 100.
Number of poles			3 pole
Standard equipment			Screw connection
Switch positions			l, +, 0
Rated current = rated uninterrupted current	$I_n = I_u$	Α	200
Short-circuit protection max. fuse gL-characteristic		A gL	250

Technical data

690 V

415 V

690 V

Lifespan, mechanical

Max. operating frequency

Switch-disconnectors

Rated surge voltage invariability	U _{imp}				
Main contacts		V	8000		
Auxiliary contacts		V	6000		
Rated operational voltage	Ue	V AC	690		
Rated operating frequency	f	Hz	50/60		
Rated current = rated uninterrupted current	$I_n = I_u$	Α	200		
Overvoltage category/pollution degree			III/3		
Rated insulation voltage	Ui	V	690		
Use in unearthed supply systems		V	≦ 690		
Rated short-circuit making capacity					
690 V 50/60 H	Ic	kA	5.5		
Rated short-time withstand current					
t = 0.3 s	I _{cw}	kA	3.5		
t = 1 s	I _{cw}	kA	3.5		
Rated conditional short-circuit current					
With back-up fuse		A gG/gL	PN2(N2)-160250: 250		
400 415 V		kA	100		
690 V		kA	80		
With downstream fuse		A gG/gL	PN2(N2)-160250: 250		
400 415 V		kA	100		
690 V		kA	80		
Rated making and breaking capacity					
Rated operational current	l _e	Α			
415 V	I _e	Α	250		

Ιe

Operations

Α

Α

Α

Ops/h

250

250

250 20000

120

min.

max.

min.

mm

min.

max.

2 x 16 x 0.8

10 x 16 x 0.8

2 x 9 x 0.8

M8

1 x (0.75 - 2.5) 2 x (0.75 - 1.5)

mm

mm

mm

mm

mm

 mm^2

Cu strip (number of segments x width x segment thickness) Box terminal

		max.	mm	10 x 16 x 0.8
В	olt terminal and rear-side connection			
	Flat copper strip, with holes	min.	mm	2 x 16 x 0.8
	Flat copper strip, with holes	max.	mm	10 x 16 x 0.8

Copper busbar (width x thickness)
Bolt terminal and rear-side connection

Control cables

Flat copper strip, with holes

Flat copper strip, with holes

Boil terminar and rear-side connection	1
Screw connection	
Direct on the switch	

Technical data for design verification			
Rated operational current for specified heat dissipation	In	Α	200
Equipment heat dissipation, current-dependent	P _{vid}	W	30.72
IEC/EN 61439 design verification			
10.2 Strength of materials and parts			

10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
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10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of ASSEMBLIES	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9 Insulation properties	
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton wi provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instructio leaflet (IL) is observed.

Technical data ETIM 7.0

Low-voltage industrial components (EG000017) / Switch disconnector (EC000216)

Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnector (ecl@ss10.0.1-27-37-14-03 [AKF060013])

Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No
Version as emergency stop installation		Yes
Version as reversing switch		No
Number of switches		
Max. rated operation voltage Ue AC	V	400
Rated operating voltage	V	690 - 690
Rated permanent current lu	Α	200
Rated permanent current at AC-23, 400 V	Α	
Rated permanent current at AC-21, 400 V	Α	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current lcw	kA	3.5
Rated operation power at AC-23, 400 V	kW	110
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	100
Number of poles		3
Number of auxiliary contacts as normally closed contact		0
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as change-over contact		0
Motor drive optional		Yes
Motor drive integrated		No
Voltage release optional		Yes
Device construction		Built-in device fixed built-in technique
Suitable for ground mounting		Yes
Suitable for front mounting 4-hole		No

Suitable for front mounting centre	No
Suitable for distribution board installation	Yes
Suitable for intermediate mounting	Yes
Colour control element	Grey
Type of control element	Rocker lever
Interlockable	Yes
Type of electrical connection of main circuit	Screw connection
Degree of protection (IP), front side	IP20
Degree of protection (NEMA)	

Dimensions



